

Abstract of the Disclosure

Disclosed are a system and method for supporting a fast hand-off in internet protocol networks and simplify a micro-mobility management, and a computer-readable medium storing a program for implementing the above method therein. The system includes a gateway for managing interfacing with Internet and location information of a mobile host; a plurality of base stations with a hierarchical architecture, which has a switching function and connects the gateway with the mobile host; and a database for storing the location information of the mobile host. The gateway interfacing with Internet manages the database for storing the location information of the mobile host, and adds additional header data to packet data received for the data transmission to the mobile host, wherein the additional header data represents the location information of the mobile host.